

CLAIMS

We claim:

1. A coupler for connecting a pair of like corrugated chambers, comprising:
a mating feature to mate with a first chamber and a second chamber; and
an adjustment feature for adjusting the angle between the first chamber and the second chamber within a range of angles.
2. The coupler of Claim 1 wherein the mating feature includes a swivel connector matable to an end of one of the chambers.
3. The coupler of Claim 2 wherein the mating feature includes a flange connector matable to an end of the other chamber.
4. The coupler of Claim 1 wherein the adjustment feature includes a swivel connector.
5. The coupler of Claim 4 wherein the swivel connector includes a post member.
6. The coupler of Claim 4 wherein the swivel connector includes a dome structure.
7. The coupler of Claim 1 wherein the adjustment feature is bidirectional.
8. The coupler of Claim 1 wherein the range of angles is about 45°.
9. The coupler of Claim 8 wherein the range of angles is about 22.5° in either direction.
10. The coupler of Claim 1 wherein the mating feature and adjustment feature are integrated with a third chamber.
11. The coupler of Claim 1 wherein the chambers are plastic leaching chambers and the coupler is plastic..

12. A coupler for connecting a pair of like corrugated chambers, each chamber having a post interconnect and a dome interconnect at respective ends, the coupler comprising:
 - a post member rotatably connectable with the dome interconnect of a first chamber;
 - a connector for connecting to the post interconnect of a second chamber;
 - and
 - a boss for defining an adjustable range of angles between the first chamber and the second chamber.
13. The coupler of Claim 12 wherein the connector includes a flange.
14. The coupler of Claim 13 wherein the flange is a segmented flange.
15. The coupler of Claim 12 wherein the connector includes a dome member rotatably connectable to the post interconnect of the second chamber.
16. The coupler of Claim 12 wherein the connector includes a post member rotatably connectable to the post interconnect of the second chamber.
17. The coupler of Claim 12 wherein the boss interfaces with the end of the first chamber to limit the adjustable angle.
18. The coupler of Claim 12 wherein the boss is bidirectional.
19. The coupler of Claim 12 wherein the range of angles is about 45°.
20. The coupler of Claim 16 wherein the range of angles is about 22.5° in either direction.
21. The coupler of Claim 12 wherein the post member, connector and boss are integrated with a third chamber.
22. The coupler of Claim 12 wherein the chambers are plastic leaching chambers and the coupler is plastic.

23. A conduit comprising:
 - a plurality of corrugated chambers, including a first chamber and a second chamber;
 - a coupler connecting the first chamber with the second chamber, the coupler comprising:
 - a mating feature mating the coupler between the first chamber and the second chamber; and
 - an adjustment feature for adjusting the angle between the first chamber and the second chamber within a range of angles.
24. The leaching field of Claim 23 wherein the mating feature includes a swivel connector mated to an end of one of the chambers.
25. The leaching field of Claim 24 wherein the mating feature includes a flange connector mated to an end of the other chamber.
26. The leaching field of Claim 23 wherein the adjustment feature includes a swivel connector.
27. The leaching field of Claim 26 wherein the swivel connector includes a post member.
28. The leaching field of Claim 26 wherein the swivel connector includes a dome structure.
29. The leaching field of Claim 23 wherein the adjustment feature is bidirectional.
30. The leaching field of Claim 23 wherein the range of angles is about 45°.
31. The leaching field of Claim 30 wherein the range of angles is about 22.5° in either direction.
32. The leaching field of Claim 23 wherein the coupler is a third chamber.

33. The leaching field of Claim 23 wherein the chambers are plastic leaching chambers and the coupler is plastic alike.
34. A conduit comprising:
 - a plurality of corrugated chambers, including a first chamber and a second chamber, each chamber having a post interconnect and a dome interconnect at respective ends;
 - a coupler interconnecting the first chamber and the second chamber, the coupler comprising:
 - a post member rotatably connected to the dome interconnect of the first chamber;
 - a connector connected to the post interconnect of the second chamber; and
 - a boss defining an adjustable range of angles between the first chamber and the second chamber.
35. The leaching field of Claim 34 wherein the connector includes a flange.
36. The leaching field of Claim 35 wherein the flange is a segmented flange.
37. The leaching field of Claim 34 wherein the connector includes a dome member rotatably connected to the post interconnect of the second chamber.
38. The leaching field of Claim 34 wherein the connector includes a post member rotatably connected to the post interconnect of the second chamber.
39. The leaching field of Claim 34 wherein the boss interfaces with the end of the first chamber to limit the adjustable angle.
40. The leaching field of Claim 34 wherein the boss is bidirectional.
41. The leaching field of Claim 34 wherein the range of angles is about 45°.
42. The leaching field of Claim 41 wherein the range of angles is about 22.5° in either direction.

43. The leaching field of Claim 34 wherein the coupler is a third chamber.
44. The leaching field of Claim 34 wherein the chambers are plastic leaching chambers and the coupler is plastic.
45. A method of fabricating a coupler for connecting a pair of like corrugated chambers, comprising:
 - forming a mating feature to mate with a first chamber and a second chamber; and
 - forming an adjustment feature for adjusting the angle between the first chamber and the second chamber within a range of angles.
46. A method of fabricating a coupler for connecting a pair of like corrugated chamber, each chamber having a post interconnect and a dome interconnect at respective ends, the coupler comprising:
 - forming a post member rotatably connectable with the dome interconnect of a first chamber;
 - forming a connector for connecting to the post interconnect of a second chamber; and
 - forming a boss for defining an adjustable range of angles between the first chamber and the second chamber.
47. A method of constructing a conduit comprising:
 - providing a plurality of like corrugated chambers, including a first chamber and a second chamber;
 - connecting the first chamber and the second chamber with a coupler, the coupler comprising:
 - a mating feature mating the coupler between the first chamber and the second chamber; and
 - an adjustment feature for adjusting the angle between the first chamber and the second chamber within a range of angles.

48. A method of constructing a conduit, comprising:
- providing a plurality of like corrugated chambers, including a first chamber and a second chamber, each chamber having a post interconnect and a dome interconnect at respective ends;
 - interconnecting the first chamber and the second chamber with a coupler, the coupler comprising:
 - a post member rotatably connected to the dome interconnect of the first chamber;
 - a connector connected to the post interconnect of the second chamber; and
 - a boss defining an adjustable range of angles between the first chamber and the second chamber.